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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,524	10/16/2003	Seong Jin Jo	9988.064.00-US	3986
30827 7590 12/21/2006 MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006			EXAMINER PERRIN, JOSEPH L	
			ART UNIT	PAPER NUMBER
			1746	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		12/21/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/686,524

Applicant(s)

JO, SEONG JIN

Examiner

Joseph L. Perrin, Ph.D.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 26 October 2006 have been fully considered but they are not persuasive.
2. Turning to the rejection(s) of the claims under 35 U.S.C. § 102, it is noted that the terminology in a pending application's claims is to be given its broadest reasonable interpretation (*In re Zletz*, 893 F.2d 319, 321, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989)) and limitations from a pending application's specification will not be read into the claims (*Sjolund v. Musland*, 847 F.2d 1573, 1581-82, 6 USPQ2d 2020, 2027 (Fed. Cir. 1988)). Anticipation under 35 U.S.C. § 102 is established only when a single prior art reference discloses, either expressly or under the principles of inherency, each and every element of a claimed invention. See *Constant v. Advanced Micro-Devices, Inc.*, 848 F.2d 1560, 1570, 7 USPQ2d 1057, 1064 (Fed. Cir.), cert. denied, 488 U.S. 892 (1988); *RCA Corp. v. Applied Digital Data Sys., Inc.*, 730 F.2d 1440, 1444, 221 USPQ 385, 388 (Fed. Cir. 1984). Moreover, anticipation by a prior art reference does not require either the inventive concept of the claimed subject matter or the recognition of properties that are inherently possessed by the prior art reference. *Verdegaal Brothers Inc. v. Union Oil co. of California*, 814 F.2d 628, 633, 2 USPQ2d 1051, 1054 (Fed. Cir. 1987), cert. denied, 484 U.S. 827 (1987). A prior art reference anticipates the subject matter of a claim when that reference discloses each and every element set forth in the claim (*In re Paulsen*, 30 F.3d 1475, 1478-79, 31 USPQ2d 1671, 1673 (Fed. Cir. 1994)).

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and *In re Spada*, 911 F.2d 705, 708, 15 USPQ2d 1655, 1657 (Fed. Cir. 1990)); however, the law of anticipation does not require that the reference teach what Applicant is claiming, but only that the claims "read on" something disclosed in the reference. *Kalman v. Kimberly-Clark Corp.*, 713 F.2d 760, 772, 218 USPQ 781, 789 (Fed. Cir. 1983), cert. denied, 465 U.S. 1026 (1984) (and overruled in part on another issue), *SRI Intel v. Matsushita Elec. Corp. Of Am.*, 775 F.2d 1107, 1118, 227 USPQ 577, 583 (Fed. Cir. 1985). Also, a reference anticipates a claim if it discloses the claimed invention such that a skilled artisan could take its teachings in combination with his own knowledge of the particular art and be in possession of the invention. See *In re Graves*, 69 F.3d 1147, 1152, 36 USPQ2d 1697, 1701 (Fed. Cir. 1995), cert. denied, 116 S.Ct. 1362 (1996), quoting from *In re LeGrice*, 301 F.2d 929, 936, 133 USPQ 365, 372 (CCPA 1962).

3. Re the §102 rejection over DURAZZANI, applicant argues that DURAZZANI does not disclose the second material being "combined with" the first material, namely the counterweights and plastic shells of the disclosed drum. The Examiner disagrees. Given the broadest reasonable interpretation, the disclosure of DURAZZANI clearly teaches the combination of a first material (i.e. counterweights) and second material (i.e. plastic shell) thereby forming a front outer tub which is readable on applicant's broadly claimed scope (a second material "combined with" a first material reads on two separate materials combined to form the tub or two materials combined in a polymer blend to form a tub). Moreover, as cited in the rejection DURAZZANI teaches both combining calcium carbonate by inserting into the injection molded plastic or forming the

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outer tub by combining calcium carbonate (metal powder) "as a filler to plastic" which reads on a metal powder blended with a plastic thereby forming the tub (see col. 3, lines 55-65). Clearly, both combining calcium carbonate and the plastic tub by insertion or by combining calcium carbonate as a filler in plastics for the purpose of providing a counterweight or ballast effect in the front outer tub is well known, as evidenced by DURAZZANI, and not considered a patentable limitation. Accordingly, recitation of DURAZZANI reads on applicant's claimed invention.

4. Regarding the §103 rejections, applicant argues that since DURAZZANI fails as argued above these rejections must also fail. This is not persuasive for at least reasons indicated above.

Claim Rejections - 35 USC § 102

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 1-2, 5-8, 10-12, 15-18 & 20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,419,164 to DURAZZANI. Re claims 1, 2, 5-8, 10-12, 15-18 & 20, DURAZZANI discloses a washing machine having a plastic tub (1) including a front outer tub (8) having an open front and rear & a rear outer tub (3) having a closed end and an open end which couples to the front outer tub via connecting means (10/12), the front outer tub having a thickness greater than the rear outer tub (see entire document, for instance, Figures 1 & 3 and relative associated text). DURAZZANI further discloses forming the front outer tub via "traditional processing methods" (i.e.

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injection molding, see col. 1, lines 59-64) to include calcium carbonate either inserted inside the injection molded plastic or “as a filler to plastic” to provide a counterweight or ballast effect in the front outer tub (see, for instance, col. 3, lines 55-65). The Examiner notes that the specific gravity (density) of calcium carbonate is well known to be higher than conventional injection molded plastics (i.e. polypropylene, polyethylene, polyvinyl chloride, or the like) and, therefore, plastics combined with calcium carbonate necessarily must have a higher specific gravity or density. Re claims 2 & 12, the Examiner further notes that calcium carbonate reads on “metal powder” since calcium is an alkaline earth metal and calcium carbonate is a solid powder.

Claim Rejections - 35 USC § 103

7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

8. Claims 3-4 & 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over DURAZZANI in view of U.S. Patent No. 5,196,506 to TAMAI *et al.* or U.S. Patent No. 5,171,769 to BULL *et al.* or U.S. Patent No. 4,136,079 to KATAYAMA *et al.*

Recitation of DURAZZANI is repeated here from above. Although DURAZZANI discloses using “heavy-weight materials other than concrete”, specifically calcium carbonate as a filler in plastic, to provide counterweight in a washing machine, DURAZZANI does not expressly disclose using other fillers such as aluminum based metal powder or iron based metal powder. Each of TAMAI *et al.* (col. 9, lines 24-42), BULL *et al.* (col. 4, line 64 – col. 5, line 11) & KATAYAMA *et al.* (col. 8, lines 16-24)

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teach that it is known to provide a molding plastic/polymer with various fillers including calcium carbonate, aluminum powder and iron powder to achieve desired properties. It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide any known filler having a higher specific weight (density) than the plastic/polymer used therewith since applicant has not disclosed that using any specific filler (i.e. calcium carbonate or iron or aluminum) solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with other known fillers having a known high density and the selection of any of these known equivalents to provide added counterweight in a washing machine tub would be within the level of ordinary skill in the art.

9. Claims 9 & 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over DURAZZANI. Recitation of DURAZZANI is repeated here from above. Although DURAZZANI discloses the tub having a front outer tub with open front and rear combined with a rear outer tub with open front and closed rear, DURAZZANI does not expressly disclose a middle outer tub with open front and rear. It would have been obvious to one having ordinary skill in the art at the time the invention was made to separate the rear outer tub of DURAZZANI into two parts to form a middle outer tub and rear outer tub as claimed by applicant, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art.

Nerwin v. Erlichman, 168 USPQ 177, 179.

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

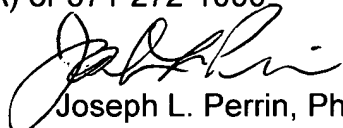
11. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Perrin, Ph.D. whose telephone number is (571)272-1305. The examiner can normally be reached on M-F 7:00-4:30, except alternate Fridays.

13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571)272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Joseph L. Perrin, Ph.D.
Primary Examiner
Art Unit 1746

JLP